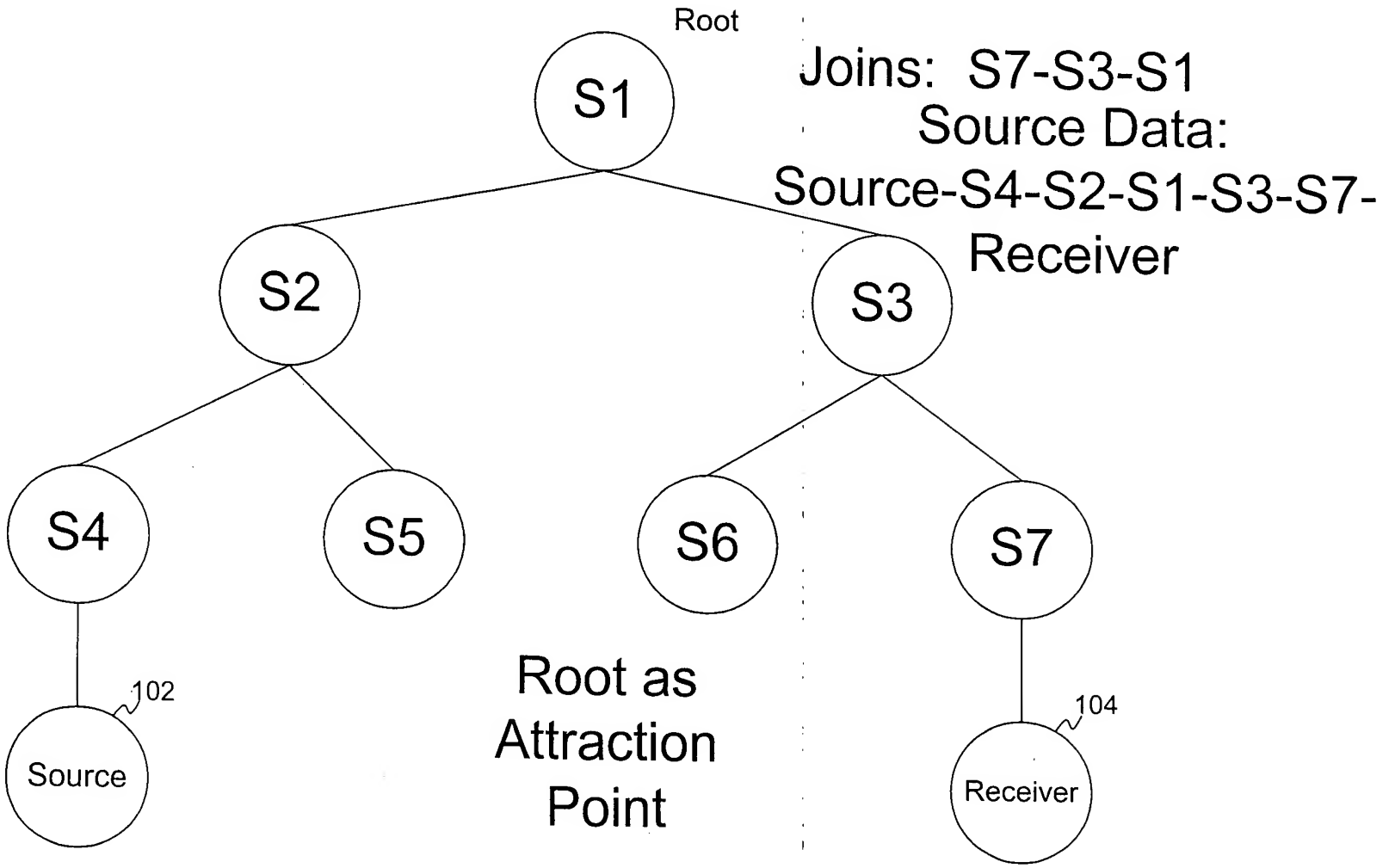
Root
S1
Joins: S7-S3-S1
Source Data:
Source-S4-S2-S1-S3-S7-
Receiver
S2
S3
S4
S5
S6
S7
102
Source
Root as
Attraction
Point
104
Receiver

Fig. 1

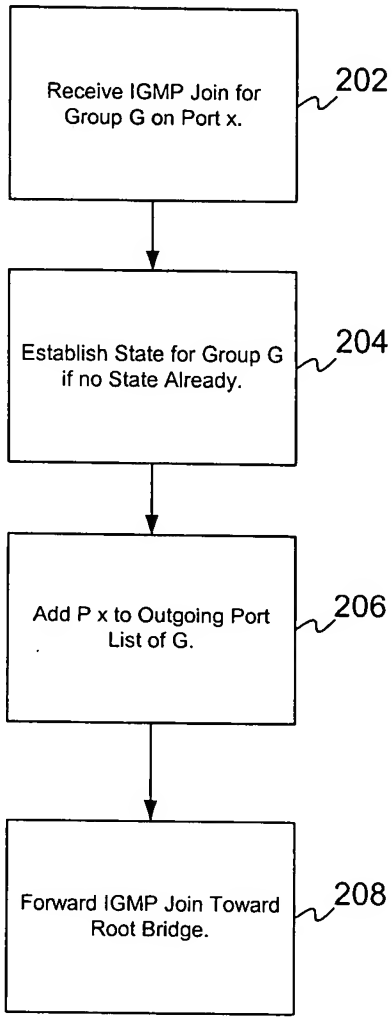
Receive IGMP Join for Group G on Port x.
202
Establish State for Group G if no State Already.
204
Add P x to Outgoing Port List of G.
206
Forward IGMP Join Toward Root Bridge.
208

FIG. 2A

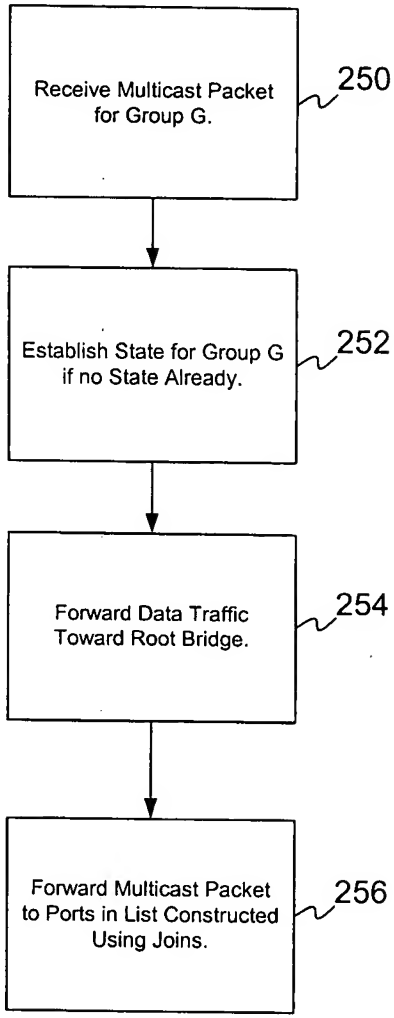
Receive Multicast Packet for Group G.
250
Establish State for Group G if no State Already.
252
Forward Data Traffic Toward Root Bridge.
254
Forward Multicast Packet to Ports in List Constructed Using Joins.
256

FIG. 2B

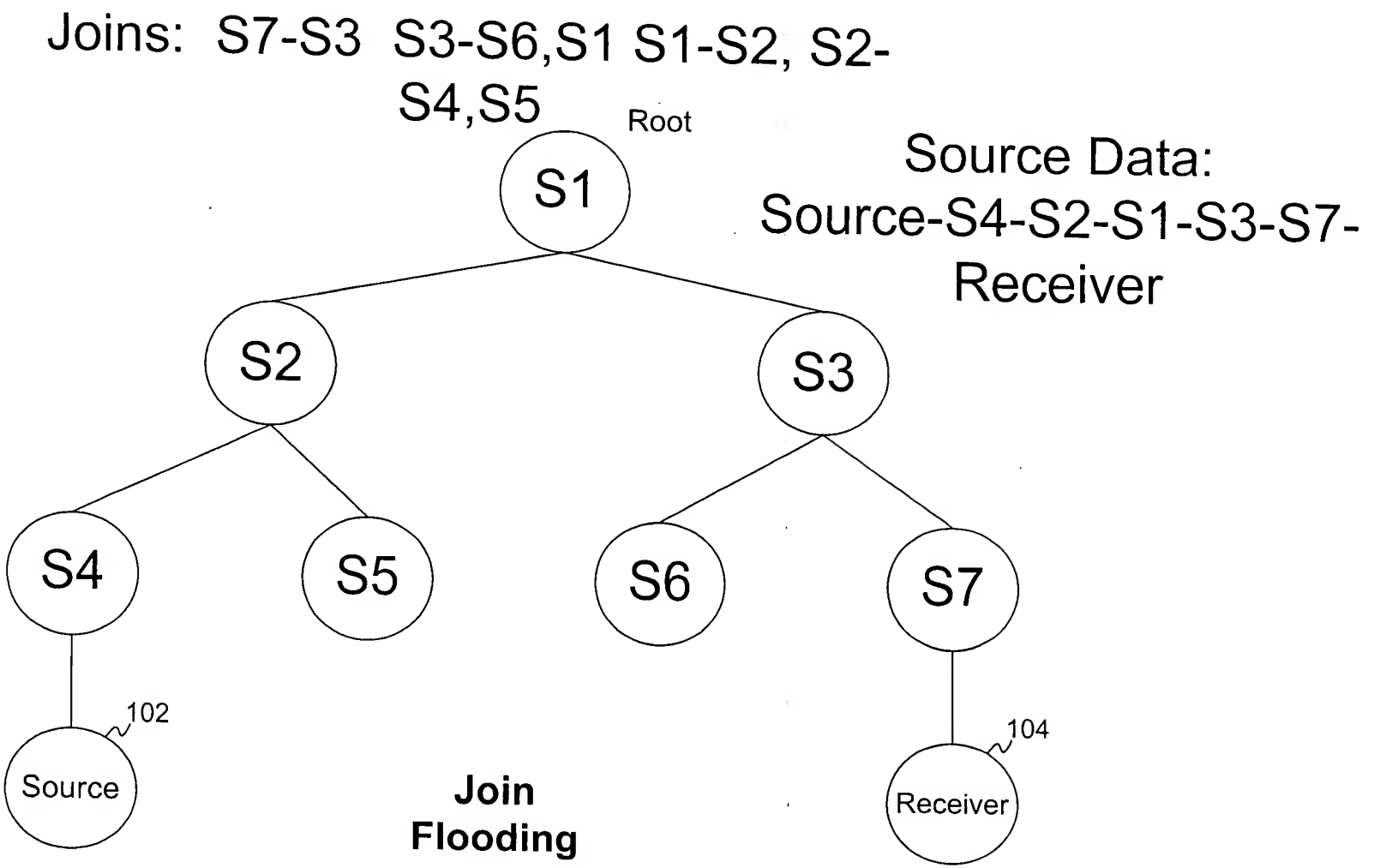
Joins: S7-S3 S3-S6,S1 S1-S2, S2-S4,S5
Root
S1
Source Data:
Source-S4-S2-S1-S3-S7-Receiver
S2
S3
S4
S5
S6
S7
102
Source
104
Receiver
Join
Flooding

Fig. 3

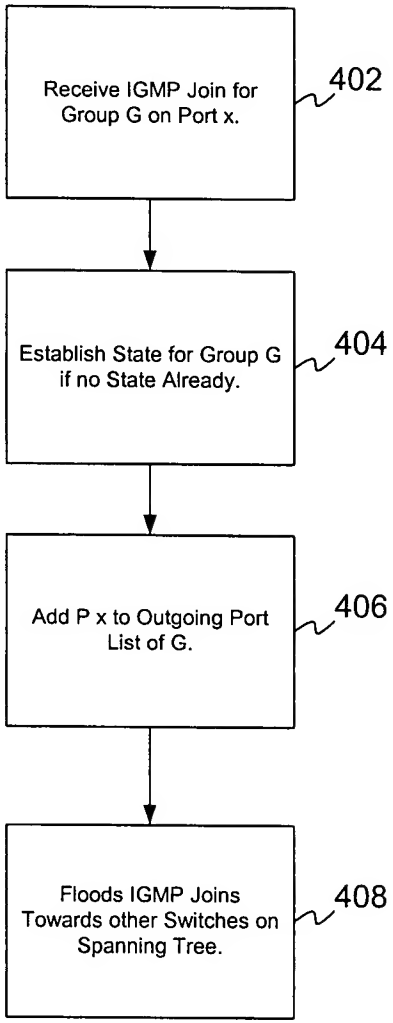
Receive IGMP Join for Group G on Port x.
402
Establish State for Group G if no State Already.
404
Add P x to Outgoing Port List of G.
406
Floods IGMP Joins Towards other Switches on Spanning Tree.
408

FIG. 4A

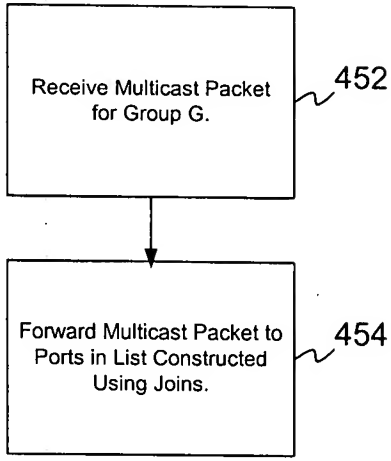
Receive Multicast Packet for Group G.
452
Forward Multicast Packet to Ports in List Constructed Using Joins.
454

FIG. 4B

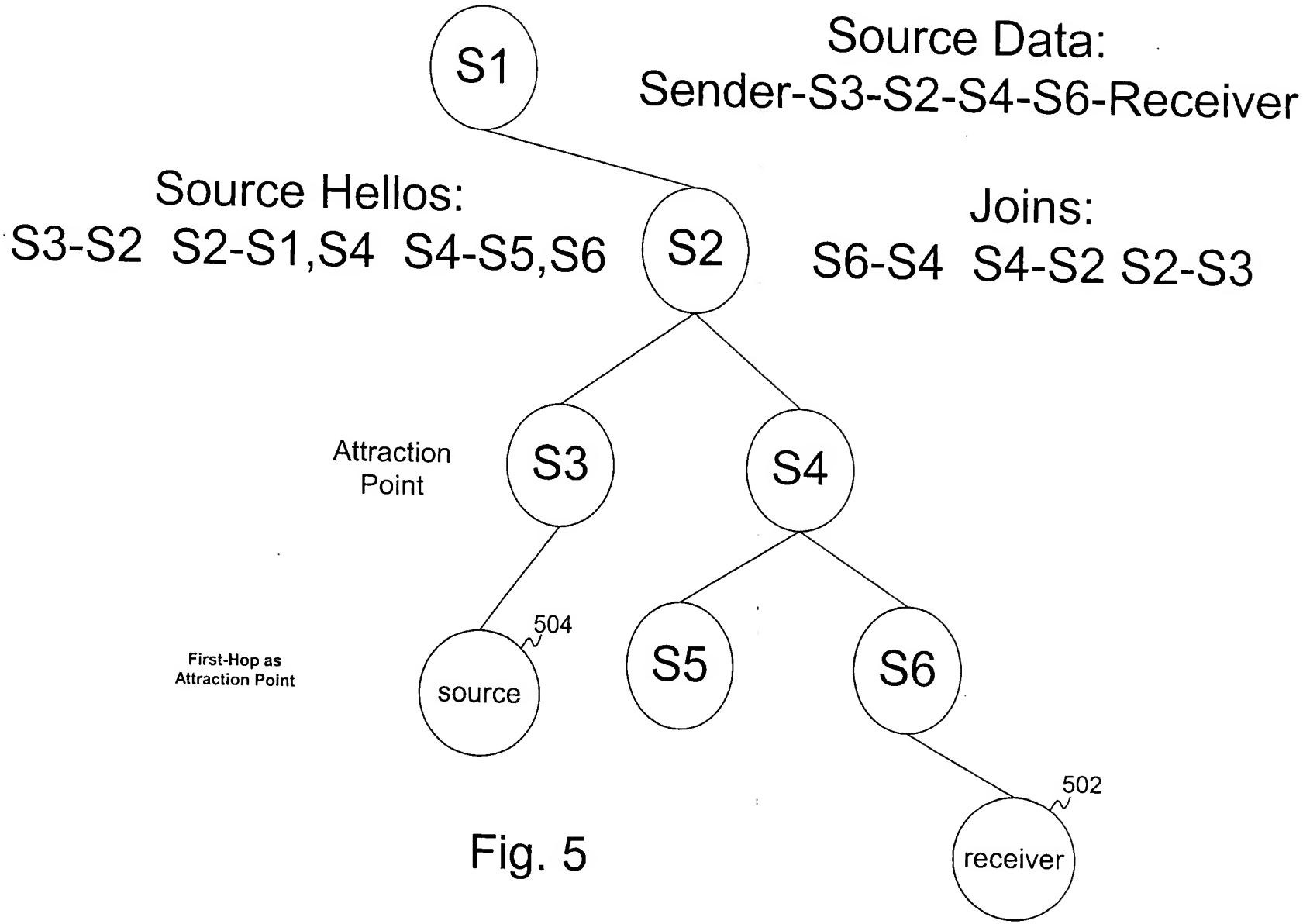
S1
Source Data:
Sender-S3-S2-S4-S6-Receiver
Source Hellos:
S3-S2 S2-S1,S4 S4-S5,S6
S2
Joins:
S6-S4 S4-S2 S2-S3
Attraction
Point
S3
S4
504
First-Hop as
Attraction Point
source
S5
S6
502
receiver

Fig. 5

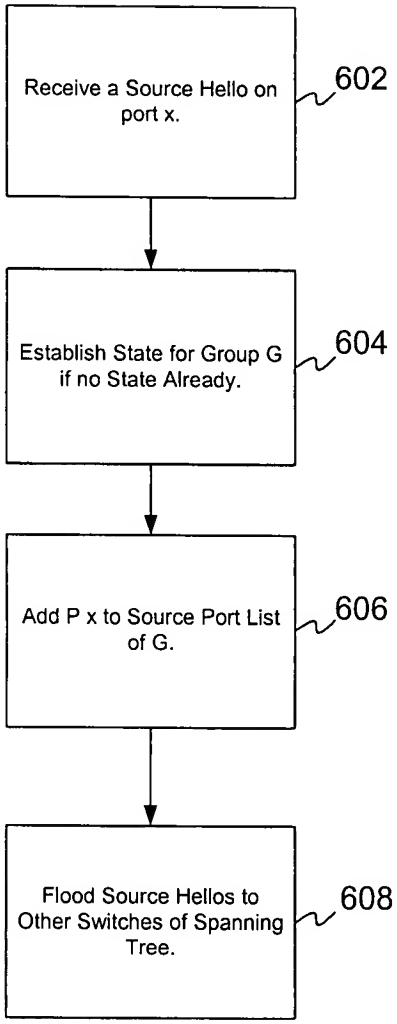

FIG. 6A

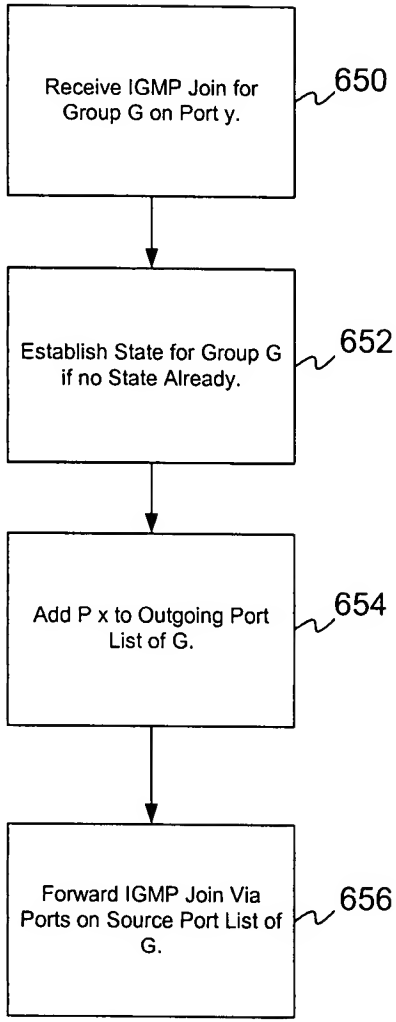

FIG. 6B

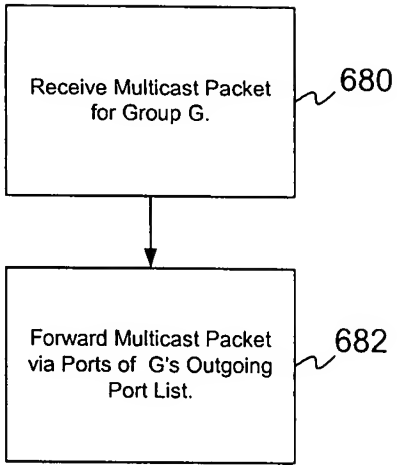

FIG. 6C

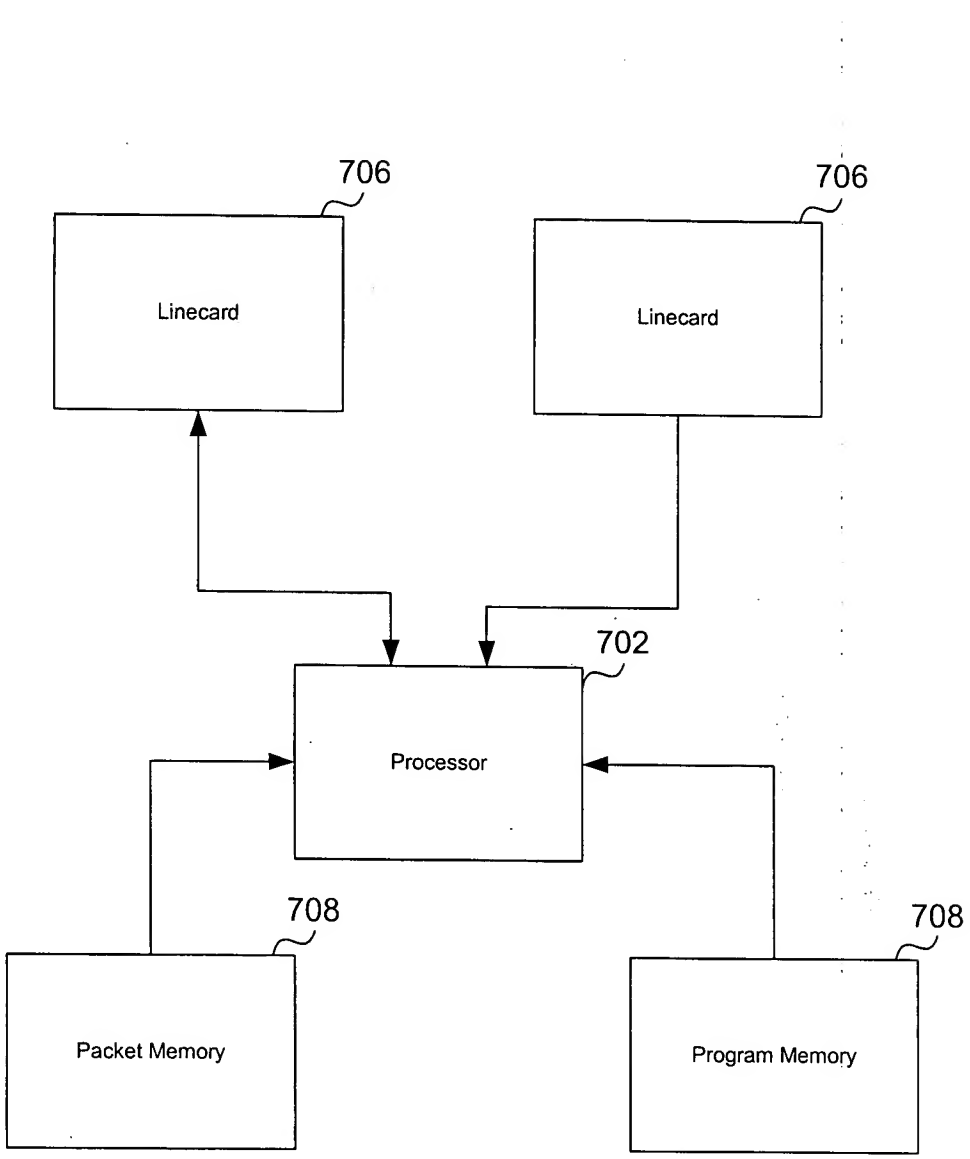
700
706
706
Linecard
Linecard
702
Processor
708
708
Packet Memory
Program Memory

FIG. 7